

12-1-1994

Washington University Record, December 1, 1994

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Recommended Citation

"Washington University Record, December 1, 1994" (1994). *Washington University Record*. Book 673.
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An artist's rendering of the future School of Law building, which will be named Anheuser-Busch Hall. The collegiate gothic architecture is designed to blend with existing campus buildings.

'Building for a New Century'

Law school launches campaign, names hall for Anheuser-Busch

Washington University's new School of Law building will be named Anheuser-Busch Hall. The Anheuser-Busch Foundation has given a generous gift in honor of retired Anheuser-Busch Cos. Inc. executive Fred L. Kuhlmann.

August A. Busch III, chair of the board and chief executive officer of Anheuser-Busch Cos. Inc., and Chancellor William H. Danforth announced the naming of the building at the Hyatt Regency at St. Louis Union Station. The celebration marked the kickoff of the Washington University School of Law campaign titled "Building for a New Century."

The new building will be completed in two phases. Phase I will include the shell of the entire building, classrooms, two courtrooms and all public areas and will cost \$36 million. Of this, \$22 million will come from internal sources, mostly funds raised in the Alliance Campaign that ended in 1987 and that were set aside for this purpose. The remaining funds for Phase I will be raised in a new \$20 million fundraising campaign that also will include the law annual fund and gifts for programmatic purposes, especially financial aid. The library will remain in Mudd Hall until Phase II funding becomes available.

The campaign is chaired by the Hon. William H. Webster, former director of both the CIA and the FBI and senior partner of the law firm Milbank, Tweed, Hadley and McCloy in Washington, D.C. Webster graduated from the Washington

University School of Law in 1949 and is a University trustee and a member of the board of Anheuser-Busch Cos. Inc. So far, the campaign has raised \$9.4 million.

Campaign deputy chair is Donald P. Gallop, senior partner of the St. Louis law firm Gallop, Johnson and Neuman. Executive vice-chairs are William M. Van Cleve and W. L. Hadley Griffin. Van Cleve is partner and retired chair of Bryan Cave, a St. Louis law firm, and chair of the Washington University Board of Trustees. Griffin is former chair of the executive committee at Brown Group Inc. of St. Louis.

Danforth commented: "Anheuser-Busch and its charitable foundations have been extremely generous benefactors of Washington University over many decades. Anheuser-Busch's most recent gift enables the School of Law to launch a campaign at this time, and Anheuser-Busch Hall will provide the facilities necessary for the school to thrive in the next century. It is especially gratifying that the gift honors an active, loyal and distinguished alumnus, Fred Kuhlmann."

The Association of American Law Schools recently rated Washington University School of Law high in all respects but one — its physical facility. School of Law Dean Dorsey D. Ellis Jr. explained: "The School of Law has long outgrown its current building. And Mudd Hall, constructed of concrete, cannot be cost-effectively renovated to accommodate advances in legal education and technology. Anheuser-Busch Hall, designed in collaboration with faculty and students, will provide a first-rate environment for modern legal education through the next century. The campaign also will raise funds for endowment and financial aid."

Among students, the need for a new building has been clear for a long time. "The big complaint all students have, including myself, is the lack of space in Mudd Hall," said Thomas Huszar, a second-year law student. "It is a problem for everyone. There isn't enough study space in the library or for having interviews on campus and there is always a problem getting a room for an event or a lecture. From what I have seen of the new building plans, there will definitely be a lot more space and it will be more student friendly."

Construction of Anheuser-Busch Hall is

scheduled to begin in early 1995 on the northwest part of the campus, just west of the school's current location. McCarthy has been chosen as the construction manager for the new building. Architects are Hartman-Cox. The new building will be collegiate gothic architecture designed to blend with existing campus buildings. The five-story 175,000-square-foot structure will house classrooms, faculty offices, the law library and two courtrooms.

Anheuser-Busch's previous contributions to the University include: the Busch Professorship of Medicine, the August A. Busch Jr. Professorship of Neurological Surgery, and the August A. Busch Jr. Chair in Marketing.

Fred Kuhlmann has spent a quarter century with Anheuser-Busch Cos. Inc. Now the national vice chair of the law school campaign, Kuhlmann graduated from the University in 1938 with A.B. and LL.B. degrees. During his years at the school he was editor of the Washington University Law Quarterly. He is a life member of the Eliot Society and has provided volunteer leadership in a variety of roles including service on the School of Law Task Force and the School of Law National Council.

Kuhlmann joined Anheuser-Busch in 1967 as general counsel and rose to become executive vice president and vice chair of the board of Anheuser-Busch Cos. Inc. He also was president of the St. Louis National Baseball Club Inc.

He is the recipient of numerous awards in honor of his service, including the Christus Vivit Award from Concordia Seminary, the Distinguished Alumni Award from Washington University School of Law, the Doctorate of Humane Letters Award from the St. Louis Rabbinical College and he recently was awarded the Wittenberg Award from the Luther Institute. He and his wife, Mildred, have two children and six grandchildren.

For a listing of other leading donors to the campaign, see story on page seven.

Danforth commented: "Washington University is fortunate to have benefitted over many years from the vision and leadership of friends like these. This campaign is made possible by their generosity and also through the involvement of many of our friends who are giving freely of their time

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Teaching of ethics thrives in University's philosophy department

The following article focusing on the College of Arts and Sciences is part of a continuing series describing the teaching of ethics at Washington University.

In 399 B.C., Socrates was executed for teaching ethics to the citizens of Athens. Essentially, the Greek philosopher was charged with corrupting youth for teaching them to question the status quo. Today discussions about ethics are flourishing in classrooms across the country and across campus, as professors encourage students to question commonly held beliefs, as well as their own.

As detailed in earlier Record articles, the subject is being addressed in the University's various schools. But the heart of ethical theory lies in the College of Arts and Sciences' Department of Philosophy, where several faculty specialize in ethics.

"There is a strong concentration in our department. It's unusual to have so many faculty teaching ethics in a department of just 16 or 17," said Larry May, Ph.D., professor of philosophy. "Teaching ethics is not like giving students an algorithm or formula to apply to a situation. Unlike a lot of disciplines, we're not providing a set of answers; we're providing a set of additional questions."

The subject has never been more popular. Offered courses range from the introductory "Present Moral Problems," which examines current moral issues ranging from race relations to surrogate motherhood, to "Classical Ethical Theories," which looks at the history of ethical theory from classical Greece to the 19th century. Other courses concentrate on the application of ethics as it relates to the law, biomedicine and business, among others. Most of these courses fill every time they are offered and some, like

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'STONE Soup' project helps feed homeless

Imagine sleeping in the dirt with no running water available to wash yourself.

Or not owning a change of clothes. Or, in freezing weather, shivering under pieces of cardboard.

These scenarios represent only a few of the day-to-day struggles experienced by the homeless. Rabbi Lynn Koshner, assistant director of the St. Louis Hillel Center, presented these images in her sermon at the Hillel Yom Kippur Services. She told stories of homeless people who roamed the streets of downtown Miami, where she worked with a mobile food outreach program.

After moving to St. Louis from Miami, Koshner started a similar food outreach project at the Kol Am Congregation in Ballwin, where she was the rabbi. Now Koshner, a new member of the Washington University community, has spearheaded a student-run food outreach project at Washington called "STONE Soup." "I knew it was an important program," she said. Enlisting the support of Washington students was not a difficult task. Many students, working through the St. Louis Hillel Center, were volunteers for the Kol Am project and understood the importance of feeding the homeless, said Koshner.

Organizers for the project, which began Nov. 6, are Kelly Garrity, social action coordinator for the Catholic Student Center, and A. J. Lubelchek, community service project team leader for Hillel's Jewish Student Council. Koshner and the Rev.

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Medical Update

BJC announces new program of women's and children's services

BJC Health System recently announced plans for a new and expanded program of Women's and Children's Health Services in the St. Louis area. BJC will integrate obstetric, gynecological, newborn and pediatric clinical and educational services among its seven metropolitan-area hospitals to create a new model for addressing local healthcare needs.

The program will deliver women's and children's services through a coordinated approach that focuses on health promotion and education and continuity of lifelong healthcare. Instead of emphasizing acute care, BJC will offer a complement of health services designed to prevent illness and to treat health problems as effectively, conveniently and efficiently as possible. In addition to offering hospital care, this model includes wellness education, primary care, ambulatory care, rehabilitation services, skilled nursing, long-term care, home care and hospice care.

"The BJC initiative was planned and designed by a task force that included faculty members from the School of Medicine," said William A. Peck, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine. "Integration of women's and children's services represents an exciting and timely approach to providing highest quality, cost-effective healthcare for the women and children of St. Louis. Our faculty will have the oppor-

tunity to provide expert specialty services at new locations within the BJC system."

As the metropolitan area's only truly integrated health system and the only one that provides the entire spectrum of obstetric, gynecological and pediatric care, BJC is uniquely qualified to take the lead in establishing this new model of healthcare for women and children, said Fred L. Brown, president and chief executive officer of BJC Health System.

"In the past, the emphasis in healthcare focused on treating disease and illness that had already occurred," said D. Michael Nelson, M.D., Ph.D., professor of obstetrics and gynecology and director of Maternal Fetal Medicine at the School of Medicine.

Nelson, a member of the BJC task force on women's and children's healthcare, said the new approach will concentrate on preventing illness and promoting lifelong wellness through comprehensive educational and guidance programs.

The new BJC Women's and Children's Health Services plan was announced to BJC managers at a special meeting on Nov. 15. Departmental business managers from the medical school and many members of its central administration also were invited to the meeting.

The new BJC Women's and Children's Health Services will be available at BJC Health System hospitals across the St. Louis metropolitan area. Below are the consolida-

tion and reorganization of obstetrical, gynecological and newborn/pediatric services, which will take place during the next five years as a result of the new program:

Barnes Hospital, The Jewish Hospital of St. Louis and St. Louis Children's Hospital will serve "well" women and infants as well as high-risk patients in need of high-tech intensive care. Barnes will be the location for low- and high-risk obstetrics, low-risk and special care nurseries, general gynecology and gynecological oncology. Jewish Hospital will provide general gynecological services, expanded prenatal diagnostics and gynecological ultrasound services, and all reproductive endocrine services. Its obstetrics program will consolidate with Barnes and Missouri Baptist Medical Center in September 1995. Children's Hospital will provide nurseries for high-risk infants and pediatric services.

Missouri Baptist Medical Center (MBMC) will serve the needs of "well" women and provide ongoing health counseling as well as periodic acute care. Clinical services will be expanded and will include general obstetrics, nurseries for low- and moderate-risk infants and general gynecology. The School of Medicine's departments of Obstetrics and Pediatrics and St. Louis Children's Hospital will provide on-site consulting services for specialty obstetrics, ultrasound/genetic and newborn care. Primary care will continue

to be provided by obstetricians and pediatricians on the medical staffs of MBMC.

A new ambulatory facility at MBMC will provide a regional focus for the innovative Women's and Children's Health Service programs being implemented by BJC. The facility, to be opened in 1998, will be designed for "well" women and children and will emphasize outpatient solutions to health needs. A Women's Resource Center will offer educational resources and health advisers to assist women in directing their healthcare. Obstetrician and pediatrician offices, ambulatory diagnostics and ambulatory-based "well" care also will be available.

Christian Hospital Northwest will provide Women's and Children's Health Services for "well" women in north St. Louis County, including general obstetrics, nurseries for low- and moderate-risk infants, general gynecology, a Women's Resource Center, obstetrician and pediatrician offices and ambulatory services. The School of Medicine's Department of Obstetrics will continue to provide specialty maternity care. The School of Medicine's Department of Pediatrics, in conjunction with St. Louis Children's Hospital, will continue to provide physician coverage of the hospital's nursery and pediatric units.

Barnes St. Peters and Alton Memorial hospitals will be the local providers for St. Charles County and Alton, Ill., offering general obstetrics, gynecology and low-risk nurseries.

A letter of intent for a Certificate of Need was filed Nov. 23 with the Missouri Health Facilities Review Committee. According to the plan, the total cost of new construction and renovation associated with the new BJC Women's and Children's Health Services is estimated at \$75 million over a five-year period. Of that, \$59.5 million is subject to review by the Missouri Health Facilities Review Committee. The total includes construction of the new ambulatory facility at MBMC; renovation and expansion of emergency pediatric services, ambulatory subspecialty services and the outpatient surgical program at St. Louis Children's Hospital; and expansion of obstetric and nursery services at Barnes Hospital to accommodate the consolidation of the Barnes-Jewish obstetric services.

The plan states that the cost will be offset over the longer term by removing 31 beds from service and eliminating duplication of high-tech services.

BJC WOMEN'S AND CHILDREN'S HEALTH SERVICES



Lee Robins receives lifetime achievement award

Lee N. Robins, Ph.D., University Professor of Social Science and professor of social science in the Department of Psychiatry, has been honored by the American Public Health Association's (APHA) Alcohol, Tobacco and Other Drugs (ATOD) Section with the 1994 Lifetime Achievement Award.

The award recognizes those who have provided a lifetime of significant contributions to the ATOD field. Contributions may be in the areas of research, education, services or policy. The award was first presented in 1991, but because it is awarded to someone with a long, distinguished career in the field, it is not awarded every year.

Robins has coordinated several land-



Lee N. Robins

mark studies on drug abuse and addiction with extensive work on drug and alcohol use by Vietnam veterans and African-American men. Her study of young black men was the first to ask questions about drug dependence in an adult general population, and she continues to play a leading international role in developing research instruments for substance abuse epidemiology.

Robins said she is gratified to be selected as this year's winner. "It is a great honor to be selected for this award by the ATOD Section of the American Public Health Association. APHA has played a vital role in fostering the reduction of smoking in this country, and in the scientific evaluation of the risks of the recreational use of other psychoactive substances."

Robins joined the School of Medicine in 1954 as a research assistant in psychiatry. She is the director of the Program in Psychiatric Epidemiology at the School of Medicine and serves on the University's Committee on Social Thought and Analysis. She has written more than 200 articles and books and serves on seven editorial boards.

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Record (USPS 600-430; ISSN 1043-0520), Volume 19, Number 14/Dec. 1, 1994. Published for the faculty, staff and friends of Washington University. Produced weekly during the school year, except school holidays, and monthly during June, July and August by the Office of Public Affairs, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, Mo. 63130. Second-class postage paid at St. Louis, Mo.

Address changes and corrections:

Postmaster and non-employees: Send to Record, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, Mo. 63130.

Hilltop Campus employees: Send to Office of Human Resources, Washington University, Campus Box 1184, One Brookings Drive, St. Louis, Mo. 63130.

Medical Campus Employees: Send to Payroll Office, Washington University, Campus Box 8017, 660 S. Euclid, St. Louis, Mo. 63110.

Washington
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Washington People

Olney's discovery excites scientific community

John W. Olney, M.D., didn't set out to be a scientist. He was a civil servant, working as a fiscal officer for the U.S. Army when he decided to go back to school and study medicine. That decision eventually led to the creation of an entirely new field of scientific research.

Olney, a professor of psychiatry and neuropathology at the School of Medicine, studies glutamate and related amino acids, which are excitatory neurotoxins. Glutamate is a neurotransmitter that carries information from one nerve cell to another. As a neurotransmitter, glutamate performs vital functions in the central nervous system, but it is also highly toxic under certain circumstances.

Olney was the first to propose that when high concentrations of glutamate are released from cells in the brain, the amino acid can kill nerve cells by overexciting receptors on their external surface. Prior to Olney's work, there wasn't even a word for this process. He coined "excitotoxicity" in the early 1970s.

The excitotoxic mechanism described by Olney now is believed to be responsible for nerve cell degeneration in very common acute brain disorders such as stroke, trauma and epilepsy, and also possibly in chronic disorders such as Alzheimer's disease, Huntington's chorea, amyotrophic lateral sclerosis (Lou Gehrig's disease) and AIDS dementia. It has become such a popular area of research that at this year's meeting of the Society for Neuroscience, more than one in five of the scientific presentations dealt with research closely related to excitotoxicity.

"He has done something that very few scientists are able to do," said Samuel B. Guze, M.D., Spencer T. Olin Professor and head of psychiatry at the School of Medicine. "His work opened up a whole new area of research, and many important advances in neuroscience can be traced directly to John Olney."

Olney's research and his decision to pursue a medical degree can, in turn, be traced directly to a sister who fell ill with multiple sclerosis. "I had been working in France (as a U.S. Army fiscal officer), and I was already 28 years old," Olney explained. "It was a good job, and it allowed me to travel in Europe and enjoy myself, but it wasn't leading to anything."

"My sister, an exceptionally bright and talented individual, was stricken with multiple sclerosis as a teenager. She had repeated attacks of the disease, and each attack left her with a reduced neurological status," he remembered. "It made me acutely aware that I wasn't devoting my life to anything particularly worthwhile, so although I had never previously aspired to be a scientist or doctor, I decided to go back to school and study medicine."

First, there were science courses. He had earned a bachelor's degree, but had not taken many of the undergraduate science courses required in a premedical program. Fortunately, he made good grades and was accepted into medical school at the University of Iowa, where he spent about half of his time conducting research about multiple sclerosis.

"There wasn't any organized research going on at Iowa that was relevant to multiple sclerosis, so in essence I just talked a benevolent professor into letting me work in a corner of his laboratory," Olney recalled.

His work was significant enough to land him the Borden Award for undergraduate research. It is still in his office, many years and many awards later.

After medical school, Olney was determined to devote his career to research of the brain and the central nervous system, though he was undecided about whether to pursue neurology or psychiatry as his primary focus.

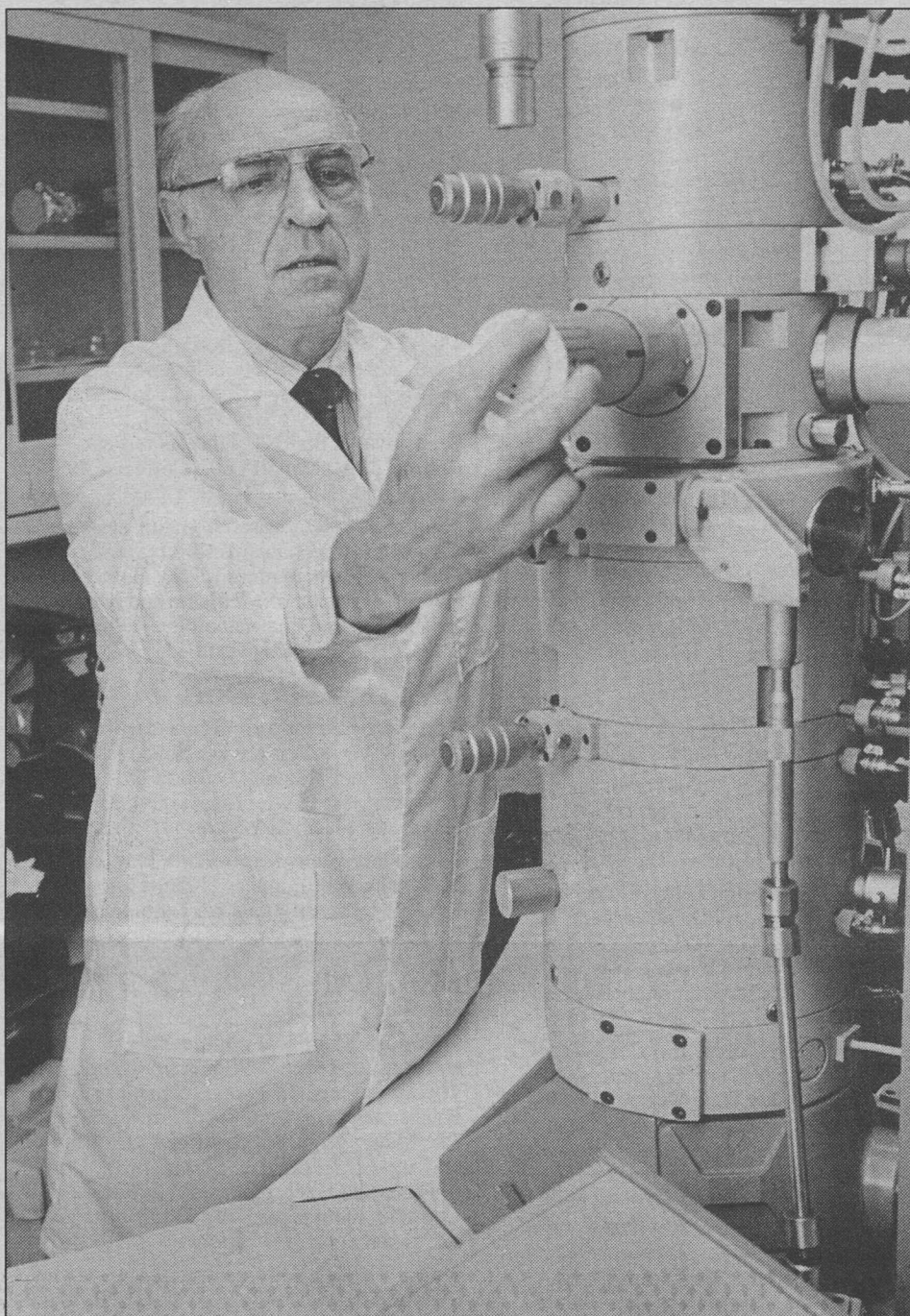
Another sister was key in determining the direction he then chose. This time, however, it was the president's sister. Rosemary Kennedy was mentally disabled, and the new Kennedy Administration was emphasizing the need for more research in psychiatry. In addition, Olney always had been intrigued with mental phenomena, so he arranged to do his residency in psychiatry at Washington University.

That decision turned out to be a good one. In those days, Olney's type of biologic research was uncommon in most psychiatry departments, but Washington University's Department of Psychiatry, under the leadership of Eli Robins, M.D., was known widely for its biologic approach to mental illness.

Current department Head Samuel Guze summed up the philosophy, saying, "The more we know about the brain and how it works, the better we will be able to treat psychiatric illness." Olney was able to pursue a type of research that would have been unavailable to him almost anywhere else in the United States.

He had the further good fortune to land in a laboratory where he was "allowed to do whatever I thought was important to achieve my goals." Working in the laboratory of Adolph I. Cohen, Ph.D., Olney had a chance to study the effect of glutamate on cells in the mouse retina.

"I had decided to study electron microscopy," he recalled. "Eli Robins helped to arrange that. He sent me to Dolph Cohen."



John W. Olney, M.D., works with an electron microscope.

"His work opened up a whole new area of research, and many important advances in neuroscience can be traced directly to John Olney."

— Samuel B. Guze

"Eli told me he had a bright young man to send me," Cohen recalled. Now a professor emeritus of ophthalmology and visual sciences, Cohen then was doing pioneering research with the electron microscope. "There had been some research suggesting that glutamate could kill certain cells in the retina, which I had verified in the mouse. But, in time, my mice became obese suggesting further damage outside the retina, so I suggested to John that he follow this up with his own experiments."

Cohen encouraged the students in his lab to act independently. He was a mentor and provided support, Olney said, but he allowed research fellows to pursue their own ideas without much interference.

"That's the way the lab always worked," Cohen said. "When I was a student, my mentor wouldn't even give you a thesis project. You had to come up with it on your own. I always felt it was a good way to tell the 'sheep' from the 'goats.'"

Olney's early experiments began with the injection of glutamate under the skin of young mice. The glutamate killed cells in the retina. Because retinal cells are very similar to cells in the brain, Olney pursued his research, studying the impact of glutamate on brain cells. It killed them, too.

The findings left Olney with a dilemma. It was known that glutamate was present in large amounts throughout the central nervous system. Why would glutamate injected under the skin kill neurons, while glutamate naturally present in the brain not kill neurons?

Further research led him to conclude that glutamate is only toxic when it is outside of cells. He reasoned that normally glutamate is contained within cells and is released only in tiny amounts as a transmitter, then is taken back up into the cell.

"In my early writings," Olney recalled, "I speculated that under abnormal conditions such as stroke, glutamate release becomes excessive and its uptake deficient so that glutamate might accumulate outside of cells and kill them by excessively stimulating their external membrane receptors. Needless to say, I was happily surprised a decade later when Steven Rothman, M.D., director of pediatric neurology at Washington University, and a group of Danish investigators independently generated evidence that this is what actually happens in stroke, a very common acute brain disorder."

His discoveries about the excitotoxic potential of glutamate did not at first ignite the scientific community. "It was essentially a negative reception," Olney said. "In some quarters it was considered ludicrous to suggest that a natural substance in the brain could excite nerve cells to death."

Olney laughs at the memory because the neuroscience community now widely accepts excitotoxicity as one of the hottest areas in neuroscience. Another part of his glutamate work, however, has met a mixed reception.

Two decades ago Olney demonstrated that feeding a single oral dose of monosodium glutamate (MSG) to mice or monkeys raised levels of glutamate in the blood high enough to cause damage in the hypothalamus of the brain. "Over the years, it has been shown that humans are at greater risk than mice or monkeys," Olney said, "because ingestion of glutamate causes much higher blood glutamate concentrations in humans than in mice or monkeys."

In younger animals, glutamate levels do not have to rise very high to cause damage because the so-called "blood brain barrier" is less developed and because certain glutamate receptor systems are overly sensitive in the developing brain.

"In addition, although definitive studies of appropriate design have not been conducted on immature humans, available evidence suggests that a given dose of glutamate may cause substantially higher blood glutamate levels in immature humans than it does in adult humans," Olney explained.

These observations have led Olney to testify several times at U.S. Senate and Food and Drug Administration (FDA) hearings where he has become a well-known food safety advocate. For more than 20 years, he has been arguing for more stringent regulation of the use of glutamate in foods.

"The food industry feels it is necessary for the marketing of their foods that they add large amounts of glutamate for flavoring purposes. It's very difficult to influence their thinking and get them to stop the practice or even to modify it," Olney said.

But, that's exactly what he's done. In a major victory, Olney convinced makers of baby foods to remove MSG from their products, but he said more needs to be done. "I don't feel that this is finished business. MSG and other glutamate products are still added in large amounts to foods that are fed to small children," he said.

Food labels that say "No MSG" are in part a response to Olney's years of advocacy, but he said those labels often are misleading. "It's very difficult to know what they mean because glutamate is present in very high concentrations in other substances, hydrolyzed vegetable protein for example, that are added routinely to foods. The FDA has consistently sided with and yielded to pressures from the food industry on this issue. It's a very unsatisfactory area in terms of regulation," he said.

So, he continues to fight for tighter regulation and to do more research in the field that he created. He recently has discovered a new kind of excitotoxicity that is unleashed by decreased (rather than increased) activation of certain glutamate receptors. It may be related to mental illness.

"Experimental drugs that trigger this syndrome in the animal brain are also known to cause severe psychotic reactions in humans," he said. "We are intrigued by the possibility that continued investigations of this type of excitotoxicity may shed new light on mechanisms underlying psychotic symptom formation in schizophrenia."

— Jim Dryden

Calendar

Dec. 1-10



Exhibitions

Biannual Faculty Exhibition. Features about 80 works by art and architecture faculty, including an eclectic mix ranging from art glass to architectural drawings. Featured artist is Gene Hoefel, prof. of art and director of the advertising program. Through Dec. 18. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-5490.

"Facing Pages." Commemorates the 30th anniversary of the University's Modern Literature Collection, an archival treasure of 20th-century literary manuscripts, correspondence and printed works of some of the most eminent writers of modern times, including Dept. of English faculty. Through Jan. 31. Special Collections, level five, Olin Library. Hours: 8:30 a.m. to 5 p.m. weekdays. 935-5495.



Films

Thursday, Dec. 1

7 and 9 p.m. Filmboard Classic Series. "You Were Never Lovelier" (1942, B&W). Room 100 Brown Hall. Cost: \$3. **For 24-hour Filmboard hotline, call 935-5983.**

Friday, Dec. 2

7 and 9:30 p.m. Filmboard Feature Series. "A Muppet Christmas Carol" (1992). (Also Dec. 3, same times, and Dec. 4 at 7 p.m.) Room 100 Brown Hall. Cost: \$3.

Midnight. Filmboard Midnight Series. "Willy Wonka & the Chocolate Factory" (1971). (Also Dec. 3, same time, and Dec. 4 at 9:30 p.m.) Room 100 Brown Hall. Cost: \$3.

Tuesday, Dec. 6

7 p.m. Japanese Film Series. "She and He" (1963), with English subtitles. Sponsored by the Dept. of Asian and Near Eastern Languages and Literatures. Room 219 South Ridgley Hall. 935-5156.



Lectures

Thursday, Dec. 1

10:30 a.m. Math seminar. "Operators That Map Atoms to Molecules and Eigenvector Estimates," Richard Rochberg, prof. of mathematics. Room 199 Cupples I Hall. 935-6726.

11:15 a.m. Social work seminar. "Special Populations — Kids, Homeless, Inpatients," Elizabeth M. Smith, assoc. prof. of social work, Dept. of Psychiatry. Second Floor Conference Room, Administrative Center, 1130 S. Hampton Ave. 935-5471.

12:30 p.m. Left Forum presentation. "Class Warfare in the Heartland," Dan Lane, union activist, Decatur, Ill. Lambert Lounge, Room 303 Mallinckrodt Center. 935-6808.

2 p.m. Second Annual Roper Day Program. Seminar in general thoracic surgery to honor Charles L. Roper, prof. emeritus, Division of Cardiothoracic Surgery. Topics include "Multimodality Therapy for Lung Cancer," Daniel Ihde, Ira M. Lang Professor of Nephrology; "Lung Cancer — Surgical Assessment and Treatment," R. Sudhir

Sundaresan, asst. prof., Dept. of Surgery; "Video-assisted Thoractomy — An Appraisal," Carolyn M. Dresler, asst. prof., Dept. of Surgery; "Cancer of the Esophagus," G. Alexander Patterson, prof., Dept. of Surgery; and "Volume Reduction Surgery for Emphysema," Joel D. Cooper, prof., Dept. of Surgery. Continues at 4:30 p.m. with "The Epidemic of Barrett's Esophagus and Its Surgical Implications," Tom R. DeMeester, prof. of general and cardiovascular-thoracic surgery and chair, Dept. of Surgery, U. of Southern California School of Medicine, Los Angeles. West Pavilion Aud., Barnes Hospital. 362-7260.

2:30 p.m. Mechanical engineering seminar. "Escape and Overturning: Simple Models With Complicated Transient Behavior," Lawrence N. Virgin, Warren Assistant Professor, School of Engineering, Duke U., Durham, N.C. Room 100 Cupples II Hall. 935-6055.

4 p.m. Chemistry seminar. "Synthesis and Characterization of Alternative Nucleic Acids," Chris Switzer, asst. prof., Dept. of Chemistry, U. of California, Riverside. Room 311 McMillen Lab. (Coffee: 3:40 p.m. outside Room 311.) 935-6530.

4 p.m. Earth and planetary sciences colloquium. "Detection of Water in the Fireball of Comet Shoemaker-Levy 9," Gordon Bjoraker, planetary scientist, NASA Goddard Space Flight Center, Greenbelt, Md. Room 362 McDonnell Hall. 935-5610.

4 p.m. East Asian studies lecture. "Japan's Defense Industry," Richard Samuels, chair, Dept. of Political Science, Massachusetts Institute of Technology, Cambridge. Room 30 January Hall. 935-4448.

4 p.m. History talk. "Shaping of the Modern American City," Eric Sandweiss, president, Missouri Historical Society. Cohen Lounge, Room 113 Busch Hall. 935-5450.

4:15 p.m. Philosophy colloquium. "Reduction in Mathematics and the Forman Sciences," Emily Grosholz, poet and prof. of philosophy, Pennsylvania State U., University Park. Stix International House living room. 935-6670.

4:30 p.m. Math colloquium. "Tree Lattices," Hyman Bass, prof. of mathematics, Columbia U., New York. Room 199 Cupples I Hall. (Tea: 4 p.m. in Room 200.) 935-6726.

Friday, Dec. 2

Noon. Cell biology and physiology seminar. "Molecular Genetic Studies of Myosin Light Chain," Rex L. Chisholm, assoc. prof., depts. of Medical Surgery and Molecular Biology, Northwestern U. Medical School, Evanston, Ill. Cori Aud., 4565 McKinley Ave. 362-6950.

Noon. Environmental engineering seminar. "When the Engineer Meets the Public: The Principles of Effective Environmental Communications," Robert L. Pierce, Fleishman Hillard Inc., St. Louis. Room 226 Urbauer Hall. 935-8590.

Noon. Performing arts informal talk. "So You Wanna Be a Star?" Josephine R. Abady, co-artistic director, The Circle in the Square Theatre, New York. Includes Q&A session. Room 325 Mallinckrodt Center. 935-5858.

1 p.m. Solid state engineering and applied physics seminar. "An Electromagnetic Technique for Packaging Problem Analysis," Ken Krause, graduate student, Electrical Engineering Program. Room 305 Bryan Hall. 935-5565.

4 p.m. Architecture lecture. "Recent Work," Michele Arnaboldi, visiting prof., Eidgenossische Technische Hochschule, Zurich, Switzerland. Room 116 Givens Hall. 935-6200.

4 p.m. Microbial pathogenesis seminar. "Transfection as a Tool to Study *Entamoeba Histolytica* Pathogenesis," William A. Petri Jr., assoc. prof., Dept. of Internal Medicine, U. of Virginia, Charlottesville. Room 775 McDonnell Medical Sciences Bldg. 362-7259.

4 p.m. Music lecture. "Dialogues as a Subject in Haydn's Early Symphonies," Richard Will, visiting asst. prof. of musicology. Room B-8 Blewett Hall. 935-5581.

6 and 8:30 p.m. Washington University Association Travel Lecture Series. "Japan — The Bamboo Bends," Willis Henry Moore, history and geography lecturer and part-time faculty member, Chaminade U. of Honolulu and Hawaii Loa College, Hawaii.

Graham Chapel. Cost: \$4.50. For more info. and to register, call 935-5212.

Monday, Dec. 5

4 p.m. Molecular microbiology seminar. "Mycobacterial Gene Expression During Growth in Human Macrophages," Josie Clark-Curtiss, research assoc. prof., Dept. of Molecular Microbiology. Room 322 Rebstock Hall. 935-7569.

4 p.m. Psychology colloquium. Title to be announced. Constantine Sedekides, prof., U. of North Carolina, Chapel Hill. Room 162 McDonnell Hall. (Reception follows in Room 218 Eads Hall.) 935-6592.

8 p.m. Architecture lecture. "Architecture in Celebration of People and Place," William Bruder, architect, New River, Ariz. Steinberg Hall Aud. (Reception follows in Room 120 Givens Hall.) 935-6200.

Tuesday, Dec. 6

4 p.m. Chemistry seminar. "Layer-by-Layer Assembly of Intercalation Compounds and Heterostructures: Toward Molecular 'Beaker' Epitaxy," Steven Keller, postdoc, Pennsylvania State U., University Park. Room 311 McMillen Lab. (Coffee: 3:40 p.m. outside Room 311.) 935-6530.

4 p.m. Diabetes research group meeting. "Molecular Mechanisms for Oxidative Damage in Atherogenesis," Jay Heinecke, asst. prof., depts. of Medicine and Molecular Biology and Pharmacology. Pathology Library, Room 3723 West Bldg. 362-7433.

Wednesday, Dec. 7

8 a.m. Obstetrics and Gynecology Grand Rounds. Case Conference. Sayed El-Azeem, chief resident, Dept. of Obstetrics and Gynecology. Clopton Aud., 4950 Children's Place. 362-3122.

1 p.m. Pathology seminar. "Pathogenesis of Sustained Pulmonary Hypertension Induced by Continuous Air Embolization," Barbara Meyrick, prof. of pathology and medicine, Vanderbilt U., Nashville, Tenn. Room 4202-04 Steinberg Bldg., Jewish Hospital. 362-2254.

3:30 p.m. Electrical engineering colloquium (cont.). "Algebraic Coding Theory in One and Two Dimensions; 5. The Fourier Transform and Codes on Curves; 6. The Many Decoding Algorithms for Codes on Curves," Richard E. Blahut, prof., Dept. of Electrical Engineering, U. of Illinois, Urbana-Champaign. Room 305 Bryan Hall. (Refreshments: 3:15 p.m.) 935-4830.

8 p.m. English colloquium. Novelist Lynn Sharon Schwartz, author of *Rough Strife* and *Leaving Brooklyn*, will lead the colloquium. Hurst Lounge, Room 201 Duncker Hall. 935-5187.

Thursday, Dec. 8

9:30 a.m. Medical Grand Rounds. "Vascular Endothelium in Health and Disease," Michael A. Gimbrone Jr., Elsie T. Friedman Professor of Pathology and director, Vascular Research Division, Harvard Medical School. Clopton Aud., 4950 Children's Place. 362-8908.

11:15 a.m. Social work seminar. "Carrying Out Follow-ups," Lee N. Robins, University Professor of Social Science in Psychiatry. Second Floor Conference Room, Administrative Center, 1130 S. Hampton Ave. 935-5741.

Noon. History talk. "Shaping Modern Athens: Designing the Myth and Public Responses," Eleni Bastea, asst. prof., School of Architecture. Cohen Lounge, Room 113 Busch Hall. (Refreshments included.) 935-5450.

1:10 p.m. Social work talk. "Social Work and Social Development in India," visiting prof. Husain Y. Siddiqui, dean, Dept. of Social Work, Jamia Milia Islamia University, India. Brown Hall Lounge.

3:30 p.m. History seminar. "Poverty in the Late 20th Century: The Problem of Distressed Communities," Jacqueline Jones, Harry S. Truman Professor of American Civilization, Brandeis U., Waltham, Mass. Cohen Lounge, Room 113 Busch Hall. 935-5450.

4 p.m. Molecular oncology seminar. "Yeast and Human Mutator Genes and Their Relationship to Cancer Susceptibility," Richard D. Kolodner, prof. of biological chemistry and molecular pharmacology, Dana Farber Cancer Institute, Harvard Medical School. Third Floor Aud., St. Louis Children's Hospital. 362-9035.

4 p.m. Chemistry seminar. "Synthesis and Physical Properties of Carbon-Nitride Solids," John Zhang, postdoc, Harvard U. Room 311 McMillen Lab. (Coffee: 3:40 p.m. outside Room 311.) 935-6530.

4:15 p.m. Philosophy lecture. "Moral Dilemmas," Mary Mothersill, prof. of philosophy, Barnard College, New York. Women's Bldg. Lounge. 935-7148.

4:30 p.m. Math colloquium. "Hua-Harmonic Functions on Bounded Domains in C," Richard Penney, prof. of mathematics, Purdue U., West Lafayette, Ind. Room 199 Cupples I Hall. (Tea: 4 p.m. in Room 200.) 935-6726.

Friday, Dec. 9

Noon. Cell biology and physiology seminar. "Localization of Function in Individual Neurons," Gary Banker, prof., Dept. of Neuroscience, U. of Virginia School of Medicine, Charlottesville. Cori Aud., 4565 McKinley Ave. 362-6950.

1 p.m. Solid state engineering and applied physics seminar. "Membrane Capacitance Revisited," David Barnett, graduate student, Electrical Engineering Program. Room 305 Bryan Hall. 935-5565.

4 p.m. Microbial pathogenesis seminar. "Herpes Simplex Virus DNA Replication," Mark Challberg, chief, Macromolecular Biology Section Laboratory of Viral Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Md. Room 775 McDonnell Medical Sciences Bldg. (Refreshments: 3:45 p.m.) 362-5718.



Music

Thursday, Dec. 1

8 p.m. Vocal jazz ensemble concert. Performance, directed by Fred Binkholder, features choral and solo jazz, including J. S. Bach's "Invention No. 4," "Christmas Time Is Here" by Vince Guaraldi, a waltz by Franz Schubert and "Caro mio ben," with soloist Christine Armistead, lecturer in music. Steinberg Hall Aud. 935-5581.

Sunday, Dec. 4

2:30 p.m. Symphony orchestra concert. Performance, directed by Dan Presgrave, includes "English Dances" by Malcolm Arnold, "Serenade for Strings in E minor" by Edward Elgar, and "Symphony No. 2 ('Romantic') by Howard Hanson. Saint Louis Art Museum Theatre. 935-5581.

8 p.m. Chamber choir concert. Performance, directed by John Stewart, includes "The Christmas Story" by Heinrich Schütz and psalm settings of Claude Goudimel, Jan Sweelinck, Luigi Rossi, Henry Purcell, Christoph Gluck, Franz Joseph Haydn, Felix Mendelssohn and Charles Ives. Graham Chapel. 935-5581.



Performances

Friday, Dec. 2

8 p.m. Performing Arts Dept. presents Washington University Dance Theatre, an evening of contemporary dance choreographed by faculty and guest artists and performed by students. (Also Dec. 3, same time, and Dec. 4 at 2 p.m.) Edison Theatre. Cost: \$8 for the general public; and \$6 for senior citizens, WU students, faculty and staff. 935-6543.

Friday, Dec. 9

8 p.m. Washington University Opera. Directed by Jolly Stewart, teacher of applied music, program includes the prologue and

WASHINGTON UNIVERSITY DRUG AND ALCOHOL POLICY

A federal mandate requires that the following Drug and Alcohol Policy be distributed to all Washington University employees and students. Please post or file accordingly.

I. Introduction

The president's National Drug Control Strategy, issued in September 1989 proposed that Congress pass legislation to require schools, colleges and universities to implement and enforce drug prevention programs and policies as a condition of eligibility to receive federal financial assistance, including student financial aid. On December 12, 1989, the president signed the Drug-Free Schools and Communities Act Amendments of 1989, Public Law 101-226. That law also requires institutions receiving federal financial assistance to prevent the illegal use of alcohol by students and employees.

The law requires that, as a condition of receiving federal funds, Washington University must certify that it has adopted and implemented a program to prohibit the unlawful possession, use or distribution of illicit drugs and alcohol by students and employees on its property or as part of any of its activities. Accordingly, Washington University has instituted this policy, which became effective on and after October 1, 1990.

II. Policy Statement

It is the goal of Washington University to protect the public health and environment of members of the University by promoting a drug-free environment.

In accordance with the mandate of the federal legislation, the manufacture, distribution, possession or use of illicit drugs, and the unlawful possession, use or distribution of alcohol on Washington University property or as part of any of its activities is prohibited.

Violations of the policy will be handled according to existing policies and procedures covering the conduct of administrators, faculty, students, and staff.

- A. Standards of Conduct — Illicit Drugs: The unlawful manufacture, possession, distribution or use of illicit drugs on Washington University property or as part of any of its activities by University students, employees or their guests is prohibited.
- B. Standards of Conduct — Alcohol: Federal legislation prohibits the *unlawful* possession, use or distribution of alcohol. Therefore, the possession and use of alcohol by non-intoxicated persons twenty-one (21) years of age or older is, according to Missouri law, lawful. University policies limit the lawful use of alcohol to appropriate occasions. Undergraduate

students should contact the Office of Student Affairs for standards governing student parties and student use and possession of alcohol. Graduate students should contact their Dean's office. Contact the Office of Human Resources on either campus for specific standards governing non-academic employees.

III. Legal Sanctions

- A. Drugs: The manufacture, possession, sale, distribution and use of illicit drugs is prohibited by city and county ordinance, state law and federal statute. Punishments range from fines of \$50 to life imprisonment. The statutes and ordinances define the drugs deemed "illicit." Attached, as Appendix A, is a summary of federal sanctions. Chapter 195 of the Revised Statutes of Missouri addresses illicit drugs. Section 195.214 of the Missouri statutes specifically prohibits the distribution of any controlled substance on University property. Persons convicted of this offense can be sentenced to imprisonment for not less than ten (10) years. To review specific provisions of applicable ordinances and statutes, contact the Office of the General Counsel (935-5152).
- B. Alcohol: Missouri's Liquor Control Law makes it illegal for a person under the age of twenty-one years to purchase, attempt to purchase, or possess any intoxicating liquor. Section 311.325 RSMo. Violation of this provision can subject one to a fine between \$50 and \$1000 and/or imprisonment for a maximum term of one year. County and municipality ordinances contain similar prohibitions and sanctions. To review specific provisions of applicable ordinances and statutes, contact the Office of the General Counsel (935-5152).



Campus Box 1143
One Brookings Drive
St. Louis, Mo. 63130-4899

ADDRESS CORRECTION REQUESTED

IV. Health Risks

- A. Drugs: Severe health risks, including death, are associated with the use of illicit drugs. Some are stated in Appendix B. For further information, contact the Center for Chemical Abuse Prevention Education (CAPE) (726-4140) or the University Health Services (Hilltop Campus — 935-6666) (Medical Campus — 362-3523).
- B. Alcohol: Abuse of alcohol can produce severe health risks, including death. Alcohol consumption causes a number of marked changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasing the likelihood that the driver will be involved in an accident. Low to moderate doses of alcohol also increase the incidence of a variety of aggressive acts, including spouse and child abuse. Moderate to high doses of alcohol cause marked impairments in higher mental functions, severely altering a person's ability to learn and remember information. Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described.

Repeated use of alcohol can lead to dependence. Sudden cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations, and convulsions. Alcohol withdrawal can be life-threatening. Long-term consumption of large quantities of alcohol, particularly when combined with poor nutrition, also can lead to permanent damage to vital organs such as the brain and the liver.

Women who drink alcohol during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical abnormalities and mental retardation. In addition, research indicates that children of alcoholic parents are at greater risk than other youngsters of becoming alcoholics. For further information, contact the Center for Chemical Abuse Prevention Education (CAPE) (726-4140) or the University Health Services (Hilltop Campus — 935-6666) (Medical Campus — 362-3523).

V. Available Drug or Alcohol Counseling, Treatments or Rehabilitation or Re-entry Programs

- A. The Center for Chemical Abuse Prevention Education (CAPE) provides the Washington University community with alcohol and other drug information, education, brief assessment and referral. Outside treatment options include self-help groups, long- and short-term outpatient programs, individual and group programs, and residential short- and long-term treatment pro-

grams. CAPE also provides assistance with re-entry into the University community following completion of an outside treatment program. All services are free and confidential. Call 726-4140 for an appointment or more information.

- B. Other University resources include the University Health Services (Hilltop Campus — 935-6666) (Medical Campus — 362-3523), the Psychological Service Center (935-6555) and the Department of Psychiatry (362-7002).
- C. Numerous non-University programs exist in the St. Louis metropolitan area. Many programs advertise extensively in local media. Consultation with one's personal physician is advised prior to self referral to such non-University programs. For further information regarding referral to such programs, contact CAPE, University Health Services or your private physician.

VI. Disciplinary Sanctions

Different disciplinary procedures are applicable to faculty, staff and students. Violations of the standards of conduct will be dealt with on a case by case basis with the imposition of discipline being appropriate to the severity of the violation. For each group comprising the University community, there are certain common sanctions that could be applied in an appropriate case. These common sanctions include letters of reprimand, probation and severance of ties with the University, through expulsion or termination. Normally, opportunity for referral to an appropriate rehabilitation program occurs and is usually associated with a first offense. Referral for prosecution will undoubtedly occur only for the most serious violations.

- A. Faculty: Faculty discipline is normally administered, in the informal manner, by the faculty member's department head, dean or by the provost. Faculty members can be terminated for cause only after a hearing conducted before a panel of faculty peers.
- B. Staff: The non-academic staff is subject to disciplinary procedures administered by the staff member's department in consultation with the human resources offices on the Hilltop and Medical campuses. The normal range of personnel actions could occur. Staff members are entitled to hearing and redress by a panel of peers.
- C. Students: The University Judicial Code governs students' conduct and establishes procedures for adjudicating complaints against students. Expulsion is the most severe sanction possible. In addition, residence halls (including fraternity houses) can impose discipline upon residents. The University may terminate the residence hall contracts of students violating its standards.

CONTROLLED SUBSTANCES — USES AND EFFECTS

DRUGS/CSA SCHEDULES	TRADE OR OTHER NAMES	MEDICAL USES	DEPENDENCE		TOLERANCE	DURATION (Hours)	USUAL METHODS OF ADMINISTRATION	POSSIBLE EFFECTS	EFFECTS OF OVERDOSE	WITHDRAWAL SYNDROME	
			Physical	Psychological							
NARCOTICS											
Opium	II III V	Dover's Powder, Paregoric Parepectolin	Analgesic, antidiarrheal	High	High	Yes	3-6	Oral, Smoked	Euphoria, drowsiness, respiratory depression, constricted pupils, nausea	Slow and shallow breathing, clammy skin, con- vulsions, coma, possible death	Watery eyes, runny nose, yawning loss of appetite, irritability, tremors, panic, cramps, nausea, chills and sweating
Morphine	II III	Morphine, MS-Contin, Roxanol, Roxanol-SR	Analgesic, Antitussive	High	High	Yes	3-6	Oral, smoked, injected			
Codeine	II III V	Tylenol w/Codeine, Empirin w/Codeine Robitussin A-C, Fiorinal w/Codeine	Analgesic, antitussive	Moderate	Moderate	Yes	3-6	Oral, injected			
Heroin	I	Diacetylmorphine, Horse, Smack	None	High	High	Yes	3-6	Injected, sniffed, smoked			
Hydromorphone	II	Dilaudid	Analgesic	High	High	Yes	3-6	Oral, injected			
Meperidine (Pethidine)	II	Demerol, Mepergan	Analgesic	High	High	Yes	3-6	Oral, injected			
Methadone	II	Dolophine, Methadone, Methadose	Analgesic	High	High-Low	Yes	12-24	Oral, injected			
Other Narcotics	II III IV V	Nunomphan, Percodan, Percocet, Tylox, Tussionex, Fentanyl, Darvon, Lomotil, Talwin ²	Analgesic, antidiarrheal, antitussive	High-Low	High-Low	Yes	Variable	Oral, injected			
DEPRESSANTS											
Chloral Hydrate	IV	Noctec	Hypnotic	Moderate	Moderate	Yes	5-8	Oral	Slurred speech, disorienta- tion, drunken behavior without odor of alcohol	Shallow respiration, clammy skin, dilated pupils, weak and rapid pulse, coma, possible death	Anxiety, insomnia, tremors, delirium, convul- sions, possible death
Barbiturates	II III IV	Amytal, Butisol, Fiorinal, Lotusate, Nembutal, Seconal, Tuinal, Phenobarbital	Anesthetic, anticonvulsant, sedative, hypnotic, veterinary euthanasia agent	High-Mod.	High-Mod.	Yes	1-16	Oral			
Benzodiazepines	IV	Ativan, Dalmane, Diazepam, Librium, Xanax, Serax, Valium Tranxene, Verstran, Versed, Halcion, Paxipam, Restoril	Antianxiety, Anticonvulsant, Sedative, hypnotic	Low	Low	Yes	4-8	Oral			
Methaqualone	I	Quaalude	Sedative, hypnotic	High	High	Yes	4-8	Oral			
Glutethimide	III	Doriden	Sedative, hypnotic	High	Moderate	Yes	4-8	Oral			
Other Depressants	III IV	Equanil, Miltown, Noludar, Placidyl, Valmid	Antianxiety, sedative, hypnotic	Moderate	Moderate	Yes	4-8	Oral			
STIMULANTS											
Cocaine ¹	II	Coke, Flake, Snow, Crack	Local anesthetic	Possible	High	Yes	1-2	Sniffed, smoked, injected	Increased alertness, excitation, euphoria, in- creased pulse rate & blood press- ure, insom- nia, loss of appetite.	Agitation, increase in body temp- erature, hallucina- tions, con- vulsions, possible death	Apathy, long periods of sleep, irri- tability, depression, disorienta- tion
Amphetamines	II	Biphetamine, Delcollese, Desoxyn, Dexedrine, Obetrol	Attention deficit disorders, narcolepsy, weight control	Possible	High	Yes	2-4	Oral, injected			
Phenmetrazine	II	Preludin	Weight control	Possible	High	Yes	2-4	Oral, injected			
Methylphenidate	II	Ritalin	Attention deficit disorders, narcolepsy	Possible	Moderate	Yes	2-4	Oral, injected			
Other Stimulants	III IV	Adipex, Cylert, Didrex, Ionamin, Melfiat, Plegine, Sanorex, Tenuate, Tepanil, Prelu-2	Weight control	Possible	High	Yes	2-4	Oral, injected			
HALLUCINOGENS											
LSD	I	Acid, Microdot	None	None	Unknown	Yes	8-12	Oral	Illusions and hallu- cinations, poor perception of time and distance	Longer, more intense "trip" episodes, psychosis, possible death	Withdraw- al syn- drome not reported
Mescaline and Peyote	I	Mesc, Buttons, Cactus	None	None	Unknown	Yes	8-12	Oral			
Amphetamine Variants	I	2,5-DMA, PMA, STP, MDA, MDMA, TMA, DOM, DOB	None	Unknown	Unknown	Yes	Variable	Oral, injected			
Phencyclidine	II	PCP, Angel Dust, Hog	None	Unknown	High	Yes	Days	Smoked, oral, injected			
Phencyclidine Analogues	I	PCE, PCPy, TCP	None	Unknown	High	Yes	Days	Smoked, oral, injected			
Other Hallucinogens	I	Bufotenine, Ibogaine, DMT, DET, Psilocybin, Psilocyn	None	None	Unknown	Possible	Variable	Smoked, oral, injected, sniffed			
CANNABIS											
Marijuana	I	Pot, Acapulco Gold, Grass, Reefer, Sinsemilla, Thai Sticks	None	Unknown	Moderate	Yes	2-4	Smoked, oral	Euphoria, relaxed inhibitions, increased appetite, disoriented behavior	Fatigue, paranoia, possible psychosis	Insomnia, hyperac- tivity, and de- creased appetite occasion- ally reported
Tetrahydrocannabinol	I II	THC, Marinol	cancer chemotherapy antinauseant	Unknown	Moderate	Yes	2-4	Smoked, oral			
Hashish	I	Hash	None	Unknown	Moderate	Yes	2-4	Smoked, oral			
Hashish Oil	I	Hash Oil	None	Unknown	Moderate	Yes	2-4	Smoked, oral			

¹Designated a narcotic under the CSA.

²Not designated a narcotic under the CSA.

Federal Trafficking Penalties

APPENDIX A

CSA	PENALTY		Quantity	DRUG	Quantity	PENALTY	
	2nd Offense	1st Offense				1st Offense	2nd Offense
I And II	Not less than 10 years. Not more than life. If death or serious injury, not less than life. Fine of not more than \$4 million individual, \$10 million other than individual.	Not less than 5 years. Not more than 40 years. If death or serious injury, not less than 20 years. Not more than life. Fine of not more than \$2 million individual, \$5 million other than individual.	10-99gm or 100-999 gm mixture	METHAMPHETAMINE	100 gm or more or 1 kg or more mixture	Not less than 10 years. Not more than life. If death or serious injury, not less than 20 years. Not more than life. Fine of not more than \$4 million individual, \$10 million other than individual.	Not less than 20 years. Not more than life. If death or serious injury, not less than life. Fine of not more than \$8 million individual, \$20 million other than individual.
			100-999 gm mixture	HEROIN	1 kg or more mixture		
			500-4,999 gm mixture	COCAINE	5 kg or more mixture		
			5-49 gm mixture	COCAINE BASE	50 gm or more mixture		
			10-99 gm or 100-999 gm mixture	PCP	100 gm or more or 1 kg or more mixture		
			1-10 gm mixture	LSD	10 gm or more mixture		
			40-399 gm mixture	FENTANYL	400 gm or more mixture		
			10-99 gm mixture	FENTANYL ANALOGUE	100 gm or more mixture		
	DRUG	QUANTITY	FIRST OFFENSE		SECOND OFFENSE		
	Others ²	Any	Not more than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine \$1 million individual, \$5 million not individual.		Not more than 30 years. If death or serious injury, life. Fine \$2 million individual, \$10 million not individual.		
III	All	Any	Not more than 5 years. Fine not more than \$250,000 individual, \$1 million not individual.		Not more than 10 years. Fine not more than \$500,000 individual, \$2 million not individual.		
IV	All	Any	Not more than 3 years. Fine not more than \$250,000 individual, \$1 million not individual.		Not more than 6 years. Fine not more than \$500,000 individual, \$2 million not individual.		
V	All	Any	Not more than 1 year. Fine not more than \$100,000 individual, \$250,000 not individual.		Not more than 2 years. Fine not more than \$200,000 individual, \$500,000 not individual.		

¹Law as originally enacted states 100 gm. Congress requested to make technical correction to 1 kg.

²Does not include marijuana, hashish, or hash oil. (See separate chart.)

Federal Trafficking Penalties — Marijuana

As of November 18, 1988

QUANTITY	DESCRIPTION	FIRST OFFENSE	SECOND OFFENSE
1,000 kg or more; or 1,000 or more plants	Marijuana Mixture containing detectable quantity*	Not less than 10 years, not more than life. If death or serious injury, not less than 20 years, not more than life. Fine not more than \$4 million individual, \$10 million other than individual.	Not less than 20 years, not more than life. If death or serious injury, not less than life. Fine not more than \$8 million individual, \$20 million other than individual.
100 kg to 1,000 kg; or 100-999 plants	Marijuana Mixture containing detectable quantity*	Not less than 5 years, not more than 40 years. If death or serious injury, not less than 20 years, not more than life. Fine not more than \$2 million individual, \$5 million other than individual.	Not less than 10 years, not more than life. If death or serious injury, not less than life. Fine not more than \$4 million individual, \$10 million other than individual.
50 to 100 kg	Marijuana	Not more than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine \$1 million individual, \$5 million other than individual.	Not more than 30 years. If death or serious injury, life. Fine \$2 million individual, \$10 million other than individual.
10 to 100 kg	Hashish		
1 to 100 kg	Hashish Oil		
50-99 plants	Marijuana	Not more than 5 years. Fine not more than \$250,000, \$1 million other than individual.	Not more than 10 years. Fine \$500,000 individual, \$2 million other than individual.
Less than 50 kg	Marijuana		
Less than 10 kg	Hashish		
Less than 1 kg	Hashish Oil		

*Includes Hashish and Hashish Oil

(Marijuana is a Schedule I Controlled Substance)

scenes from Richard Strauss' "Ariadne auf Naxos," a satirical opera. Performance features Harold Blumenfeld, prof. emeritus, Dept. of Music. (Also Dec. 10, same time.) Umrath Hall Lounge. 935-5581.



Miscellany

Thursday, Dec. 1

5:30 p.m. Alpha Chi Omega gathering. The Sigma Sigma alumni chapter invites undergraduates, graduate students and staff to attend. Umrathskellar. For more info., call Deb at 821-5031 or Charlotte at 962-2188.

Friday, Dec. 2

6:45 a.m. Office of Continuing Medical Education seminar. "Twelfth World Congress of Endourology and SWL and Tenth Basic Research Symposium." Through Dec. 6. Adam's Mark Hotel, St. Louis. For more info. and to register, call 362-6893.

Tuesday, Dec. 5

4 p.m. Reading and booksigning. Eddy Harris, author of *Mississippi Solo: A River Quest* and *South of Haunted Dreams: A Ride Through Slavery's Old Back Yard*, will read from his work in progress. Sponsored by the African and Afro-American Studies Program. Hurst Lounge, Room 201 Duncker Hall. 935-5690.

5:15 p.m. University College informational session. Presents information on University College's new Master of Arts degree program in American culture studies

being introduced this spring semester. January Hall. For more info. and to register, call 935-6700.

Friday, Dec. 9

Noon. Woman's Club luncheon and program. "Holiday Customs," an historical overview of holiday customs in St. Louis from the late 1700s to 1920. Women's Bldg. Lounge. Open to Woman's Club members and their guests. Cost: \$5. For more info., call Coreen Motard at 645-2022.

Saturday, Dec. 10

8 a.m.-12:15 p.m. Office of Continuing Medical Education seminar. "Evaluation and Management of Cardiovascular Disease in the Elderly." Ritz Carlton Hotel, 100 Carondelet Plaza, Clayton. For schedule, registration and cost info., call 362-6893.

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations and its recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state time, date, place, sponsor, title of event, name of speaker(s) and affiliation, and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Judy Ruhland at Box 1070 (or via fax: 935-4259). Submission forms are available by calling 935-4926.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline, holiday schedule, or any other information, please call 935-4926.

Sports

Compiled by Mike Wolf, director, and David Moessner, asst. director, sports information.

Women's Volleyball

Last Week: NCAA Quarterfinal: Washington 3 (15, 15, 11, 15), University of California-San Diego 1 (6, 6, 15, 12)

This Week: Friday-Saturday, Dec. 2-3, NCAA Division III Semifinals/Finals, Ithaca, N.Y.

Season Record: 40-2 (12-0 UAA Champion)

Washington University secured its sixth straight NCAA Division III Final Four berth by tackling second-seeded UC San Diego on Nov. 19 in LaJolla, Calif. Senior Amy Albers, Washington, Mo., added another entry to her glowing resumé by notching a school-record 38 kills. This weekend the Bears will square off with Ithaca College, the host institution, in one semifinal. Juniata College will face the University of Wisconsin-Oshkosh in the other semifinal. The winners will meet Saturday for the championship.

Women's Basketball

Last Week: Washington 70, Millsaps 59; Washington 59, Aurora 48

This Week: 7:30 p.m. Tuesday, Nov. 29, vs. Illinois College, Field House; 7:30 p.m. Friday, Dec. 2, vs. William Penn College, Oskaloosa, Iowa; 7:30 p.m. Saturday, Dec. 2, vs. Central College, Oskaloosa, Iowa

Season Record: 3-1

Led by a tournament most valuable player performance by senior center Renee Foster, Peoria Heights, Ill., the Bears earned the team title in last weekend's Sixth Annual WU Invitational. Foster was joined on the six-player all-tournament team by first-year sensation Amy Schweizer, St. Louis.

Men's Basketball

Last Week: Illinois Wesleyan 81, Washington 78; Washington 76, Beloit 69; Washington 77, Rhodes 65

This Week: 7 p.m. Tuesday, Nov. 29, at Maryville University, St. Louis; 8 p.m. Friday, Dec. 2, 11th Annual Lopata Classic, vs. Swarthmore College, Field House; 6 and 8 p.m. Saturday, Dec. 3, 11th Annual Lopata Classic, Field House.

Season Record: 2-1

This year's Lopata, or "Brainball Classic," features Colorado College, a first-time entrant, and past participants Pomona-Pitzer colleges and Swarthmore College. Washington captured last year's title — its sixth Lopata Classic championship.

Men and Women's Swimming/Diving

Last Week: Men: Washington 115, University of Missouri-St. Louis 87; Washington 156, Grinnell 70. Women: Grinnell 122, Washington 99.

This Week: Friday-Saturday, Dec. 2-3, at DePauw/Wabash Invitational, Greencastle, Ind.

Season Record: Men: 5-1; Women: 3-2

Men and Women's Cross Country

Placing 31st in the field of 184 runners, sophomore Jerylin Jordan, Kaneohe, Hawaii, became the first female cross country runner in Washington history to earn All-America honors. Jordan, competing at the NCAA Division III Championship held Nov. 19 in Bethlehem, Pa., circled the five-kilometer course in 18:45 to claim one of the 35 All-America berths.

Football

Following a record-setting career, senior linebacker Matt Gomric, Belleville, Ill., was named the University Athletic Association's (UAA) Defensive Player of the Year. The All-America candidate holds every Washington career, single-season and single-game record for total tackles and unassisted tackles. Other players named to the all-UAA first team include: tailback Todd Hannum, Maryville, Tenn.; linebacker Jeremy Bellinghausen, Colorado Springs, Colo.; defensive end Aaron Boehm, Beavercreek, Ohio; defensive back Chris Nalley, Ferris, Texas; and punter Josh Haza, Lebanon, Mo.



(Clockwise from center) Jeanenne Lambert, Michael Oriatti, Ed Curtis, Alex Goldberg and Jeremy Gerard will perform in a Washington University Opera presentation slated for Dec. 9 and 10. Lambert, Oriatti and Gerard are graduate students in vocal performance, Curtis is a doctoral candidate in history and Goldberg is a senior liberal arts major.

Satirical opera described as a witty mélange of the comic and serious

The Washington University Opera, under the direction of Jolly Stewart, will present the Prologue and selected scenes from Richard Strauss' opera "Ariadne auf Naxos" at 8 p.m. Dec. 9 and 10 in Umrath Hall Lounge. The concert is free and open to the public.

In this satirical opera, Strauss and his librettist Hugo von Hofmannsthal combine operatic figures with stock characters from both the commedia dell'arte, an improvised kind of popular comedy in Italian theatres in the 16th-18th centuries, and Molière's plays to create a witty mélange of comic and serious opera.

The wealthy Viennese nobleman in the story declares that the evening's theatrical presentations must stop promptly at a given hour so that his guests can enjoy fireworks. Absurdity reigns when he decrees that both the opera seria and the farce already planned as after-dinner entertainment must now be played on stage simultaneously.

"So many people I know ask me what it's like to be backstage before or during an opera," said Jolly Stewart. "What goes

on, how does it all work? This is Strauss and Hofmannsthal's version of the answers to these questions."

Elizabeth Peterson sings the part of the composer while the coquettish Zerbinetta of the burlesque will be sung by Jeanenne Lambert. Krystiane Cheetham and Gary Scheufler appear as Ariadne and Bacchus. Peterson will receive a master's degree in vocal performance in December. Cheetham received a master's degree in vocal performance last May. Lambert and Scheufler are pursuing master's degrees in vocal performance.

The role of the pompous Majordomo will be played by Harold Blumenfeld, professor emeritus of music at Washington University and the composer of "Breakfast Waltzes," a one-act comedy that was given its world premiere last spring by the Washington University Opera. Additional graduate and undergraduate students in the Department of Music's opera program will complete the cast.

For more information, call the Department of Music at 935-5581.

Performing arts, music auditions scheduled

The Performing Arts Department will hold auditions Dec. 5-7 for a wide range of acting roles in four theater productions scheduled for the spring semester. The productions include "Blood Wedding," a classic tale of love, honor and revenge (Feb. 17-26) in the Drama Studio, Room 208 Mallinckrodt Center; "The Illusion," a contemporary version of a 17th-century French comedy (March 31-April 9) in Edison Theatre; and two one-act plays, "Artist Descending a Staircase" and "The Ohio State Murders" (April 27-30) in the

Drama Studio. Auditions are open to all Washington University students, faculty and staff. Sign-up sheets will be posted at the Performing Arts Department office, Room 314 Mallinckrodt Center. For information, call 935-5858.

The Washington University Wind Ensemble will hold auditions for next semester from 1 to 2:30 p.m. on Jan. 15 in Tietjens Rehearsal Hall. Openings exist for trumpet, alto, baritone saxophone and percussion players.

For more information, call the Department of Music at 935-5581.



Students (from left) Jason Gaswirth, Kevin Alvares and Mark Arnecilla help prepare hot stew for the homeless.

Students help homeless who 'fall through the cracks' — from page 1

Gary Braun of the Catholic Student Center are the group's advisers, along with David E. Pollio, Ph.D., an assistant professor of social work whose research interests include homelessness. The project is sponsored by Hillel, Catholic Student Center and the George Warren Brown School of Social Work.

The "STONE" in the title stands for Students Together Offering Nourishment and Enthusiasm. The project's name is based on an old tale about three soldiers who teach French villagers a lesson about community. When the villagers hide their meager food from the soldiers, the soldiers brag that they can make soup for the entire village from three stones. They do indeed make the soup, but not without help from the villagers, whom they eventually persuade to add food to the mixture. In the end, everyone enjoys a festive dinner together.

As part of the "STONE Soup" project, students cook dinner for the homeless each Sunday from 4 to 6 p.m. at the Catholic Student Center, 6352 Forsyth Blvd. St. Louis area businesses, as well as the Marriott Food Service on campus and individuals, donate the ingredients and food, which includes a nutritious hot stew, bread, pastries, a beverage and sometimes fresh fruit.

The students distribute the meals at two downtown locations: Kiener Plaza, which is located at 16th and Chestnut streets, and a park at 14th and Locust. Any leftover food is donated to the Peter and Paul Community Service men's shelter in Soulard. Organizers said the response so far from the homeless community has been great. The homeless at the Kiener Plaza site cheered when students arrived to serve meals on Nov. 13.

At Kiener Plaza, people "were waiting for us." They were "counting on us coming," said Lubelchek, a senior in architecture who transferred to Washington last fall from Grinnell College in Iowa. "One guy said he was hoping it (the project) wasn't a joke," added Koshner. Students enlisted help from the homeless community to spread the word about "STONE Soup." Some of the individuals being fed clean up after meals are served. The homeless "are so willing to help us. It's neat to see. They want to be part of it," said Lubelchek.

By feeding as many as 50 people at each location on Sundays, with additional locations to be added as the project grows, the volunteers are assisting the men, women and children who are unable to sleep in a shelter that day. Many food programs are affiliated with churches and are closed on Sundays, noted Koshner. The shelters usually serve limited food and no hot meals on Sundays, she said. Additionally, as Koshner pointed out during her Yom Kippur sermon, most St. Louis shelters cannot accommodate husbands and wives together

or boys over 11. Furthermore, for various reasons, some homeless people elect not to stay in shelters. "There are way too many homeless people," said Lubelchek. "People who choose not to stay in shelters fall through the cracks."

Besides the homeless, the project strives to help feed individuals who once lived on the streets and are now struggling financially to survive. These people often must make the difficult choice between eating or having enough money to rent a room they share with others, noted Koshner.

So far, approximately 150 people have signed up to volunteer for "STONE Soup," an ongoing project that, with the exception of Christmas Day, continues through the holidays as well as summer break. The group is divided into six committees: food, supplies, cooking, publicity, scheduling, and captains. Each committee is led by two co-chairs.

More volunteers are needed to conduct such tasks as cooking dinner at the center, serving the food, or working on the committees. Although "STONE Soup" is primarily a student project, organizers stress that anyone willing to help is welcome, particularly during the holiday and summer breaks, when most students return home.

Along with soliciting food donations, project organizers also are seeking hygiene supplies, like travel size toiletries, and winter clothing, which they plan to distribute to the homeless during the meals. Many of the homeless at the two sites are men. Group leaders are focusing on securing such items as men's socks, shirts, underwear, coats, sweaters and hats. Bins to donate clothing are located in residence hall laundry rooms. The volunteers also need blankets, pots and pans to prepare the food and a van to distribute it.

The group also needs money donations. Checks should be made payable to Hillel with "STONE Soup" on the memo line. Individuals may mail checks to "STONE Soup," 6300 Forsyth Blvd., St. Louis, Mo., 63105.

To raise money for the project, the group will sponsor a holiday card sale for the Christmas and Hanukkah season. Group participants plan to make the cards from sheets of parchment. All proceeds from the cards, which will cost \$5, will go toward buying food for the homeless.

By working on a common goal with various individuals, Lubelchek and Garrity believe "STONE Soup" will unite the University's diverse student organizations. The unity already has begun, they said, as evidenced by groups like the Sigma Alpha Epsilon fraternity volunteering to assist with the clothing drive, or other groups, whose members have assembled at the center to cook.

"There's so much you can learn from different groups," said Lubelchek. "There's

no way you can't gain something from the experience. Washington University students are our future leaders. They need to know what's happening in the cities."

"STONE Soup" also offers participants "a new perspective — opens their eyes," said Lubelchek. Garrity agreed. As an undergraduate at the University of St. Thomas in St. Paul, Minn., he stayed in a homeless shelter for a week through the university's Alternative Spring Break Program. Garrity became aware of "who these people really are," he said. Now working with projects like "STONE Soup" is "a necessary part of my life ... such a rich part of my life."

For more information about "STONE Soup," call Garrity at 725-3358 or Koshner and Lubelchek at 726-6177.

— Carolyn Sanford

American culture studies master's program offered

Washington University will introduce a Master of Arts degree program in American culture studies in the 1995 spring semester. Co-sponsored by the Graduate School of Arts and Sciences and University College, the University's evening division, this 30-unit program provides an interdisciplinary curriculum in American literature, history, politics, philosophy, arts, music, theater and society.

An informational session will be held at 5:15 p.m. Monday, Dec. 5, in January Hall. To register, call 935-6700.

"The new Master of Arts degree in American culture studies offers the opportunity to develop multiple perspectives upon a common subject," said Wayne Fields, Ph.D., dean of University College and professor of English. "It acknowledges the pluralistic nature of our rich and diverse culture and points to ways in which we might better respond to its complexity."

Drawing on the resources of the Faculty of Arts and Sciences and area cultural institutions, the program is designed for adult learners, including secondary school teachers, museum and library personnel and others with an interest in American culture.

The program is designed so that students seeking a concentration in an area such as African and Afro-American studies may do so within the broader context of American culture studies, Fields said. The curriculum includes interdisciplinary seminars planned by the University's American Culture Studies Program and related courses in African and Afro-American studies, anthropology, art history, drama, education, English, history, music, philosophy, political science, religious studies and women's studies.

Courses normally are offered once a week in the late afternoon or evening. Program requirements are intentionally flexible to fit the needs and interests of adults; students may start the program in the fall, spring or summer terms.

M.A. degree candidates must complete 30 units of graduate-level (400 and above) work at Washington University with a minimum 3.0 grade point average. Most courses are three credits.

For more information, call 935-6778.

Campus Watch

The following criminal incidents were reported to the Hilltop Campus Police Department Nov. 14–28. Readers with information that could assist the investigation of these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness on campus.

Due to a break in Record publication over Thanksgiving, this list includes police reports spanning two weeks.

Nov. 14

10:43 a.m. — A computer belonging to the Department of English was reported stolen from Room 212 Duncker Hall sometime between 3 p.m. Nov. 13 and 10:40 a.m. Nov. 14.

2 p.m. — A visitor's purse was reported stolen from the women's locker room in the Athletic Complex at 1:50 p.m.

Nov. 17

11:50 a.m. — License plate decals were reported stolen from a student's vehicle parked in the upper circle drive in front of Brookings Hall.

5:29 p.m. — A student's bicycle was reported stolen from Sigma Alpha Epsilon sometime between 3 p.m. Nov. 14 and 5 p.m. Nov. 17.

Nov. 19

8:43 a.m. — A faculty member's purse was reported stolen from Room 139 Mudd Hall sometime between noon and 5:30 p.m. Nov. 18.

Nov. 20

3:20 p.m. — Jewelry belonging to a student was reported stolen from an unlocked locker in the Whittemore House sometime between 5 and 10:30 p.m. Nov. 4.

4:41 p.m. — A staff member's camera and radio were reported stolen from Room 113 Mallinckrodt Center sometime between noon Nov. 19 and 9 a.m. Nov. 20.

5:55 p.m. — A visitor's purse was reported stolen from Room 300 Brown Hall sometime between 4:15 and 5:30 p.m.

Nov. 21

12:03 p.m. — A student's wallet was reported stolen from a practice room on the second

floor of Tietjens Hall sometime between 1 and 2 p.m. Nov. 18.

12:45 p.m. — A "Dog lease law" sign and pole belonging to the Department of Facilities Planning and Management were reported stolen from the south side of Duncker Hall sometime between 4 p.m. Nov. 18 and 9 a.m. Nov. 21.

Nov. 22

9:13 a.m. — Five radios and charging units were reported stolen from the maintenance shop in the lower level of Hurd Residence Hall sometime between 4 p.m. Nov. 21 and 8:30 a.m. Nov. 22.

5:13 p.m. — A student's wallet was reported stolen from a room in Shepley Residence Hall sometime between 5:30 p.m. Nov. 20 and 5:13 p.m. Nov. 22.

Nov. 23

1:42 p.m. — A faculty member's wallet was reported stolen from Room 218 Simon Hall sometime between 12:30 and 1 p.m.

Nov. 26

12:37 a.m. — A student's bicycle and four speakers were reported stolen from Theta Xi sometime between 8 a.m. Nov. 25 and 12:25 a.m. Nov. 26.

Nov. 27

2:06 a.m. — University police detained a trespasser just north of Fraternity Row. A record check revealed that the subject was wanted by the St. Louis City Police Department for charges of burglary and receiving stolen property. The subject was turned over to St. Louis City.

In addition to the above incidents, campus police responded to one lesser report each of burglary, vandalism, stealing and suspicious person.

For The Record

For The Record contains news about a wide variety of faculty, staff and student scholarly and professional activities.

Speaking of

Funso S. Afolayan, Ph.D., visiting assistant professor of African history, presented a paper on "Personalities, Configurations and Pressure Groups in the Abortion of Nigeria's Third Republic" at the African Studies Association's 37th annual meeting in Toronto. ...

During the American Public Health Association's conference in Washington, D.C., **Yu-Wen Chen**, a doctoral candidate in social work, and **Arlene R. Stiffman**, Ph.D., associate professor of social work, presented a paper on "Social Workers as Gatekeepers of Mental Health Services for Teens." She wrote the paper with **Li-Chen Cheng**, a doctoral candidate in social work, and **Peter Dore**, database manager at the George Warren Brown School of Social Work. Stiffman also presented a paper titled

"A Person-environment Model for Social Work Public Health Interventions" at the conference. She co-authored the paper with Dore. ...

At a New York conference sponsored by the International Law Association and seven other organizations, **Stephen H. Legomsky**, J.D., D.Phil., Walter D. Coles Professor of Law, chaired a panel on European migration policy. ...

In New York's Avery Fisher Hall, **Hugh Macdonald**, Ph.D., Avis Blewett Professor of Music, delivered the introductory lecture for the New York premiere of Berlioz's "Messe Solennelle." He also recorded a program titled "Desert Island Discs" for WETA-FM radio in Washington, D.C., and was interviewed for a program titled "The Story of Western Music" on the British Broadcasting Corp.'s World Service. ...

Jay F. Piccirillo, M.D., assistant professor of otolaryngology and director of the Clinical Outcomes Research Office, was a panel member during a session titled "Quality of Life and Rehabilitation" at the Fourth Research Workshop on the Biology, Prevention and Treatment of Head and Neck Cancer in Arlington, Va. ...

Rai Ajit K. Srivastava, Ph.D., research assistant professor of medicine, presented a paper titled "Molecular Biology of Low Cholesterol Syndrome" during a satellite meeting on "Genetic Rearrangements and Their Significance" at the Bhabha Atomic Research Center in Bombay, India.

On assignment

John C. Morris, M.D., associate professor of neurology, was a visiting professor

at the University of Western Ontario's Department of Clinical Neurological Sciences in London, Ontario. During an inaugural session marking the monthlong celebration of the department's 25th anniversary, he spoke on "Alzheimer's Disease — Clinical and Research Update."

Guidelines for submitting copy:

Send your full name, complete title, department, phone number and highest-earned degree, along with a typed description of your noteworthy activity to For The Record, c/o Carolyn Sanford, Campus Box 1070, or p72245cs@wuvmd.wustl.edu. Items must not exceed 75 words. For information, call Sanford at 935-5293.

Introducing new faculty members

Medical Campus:

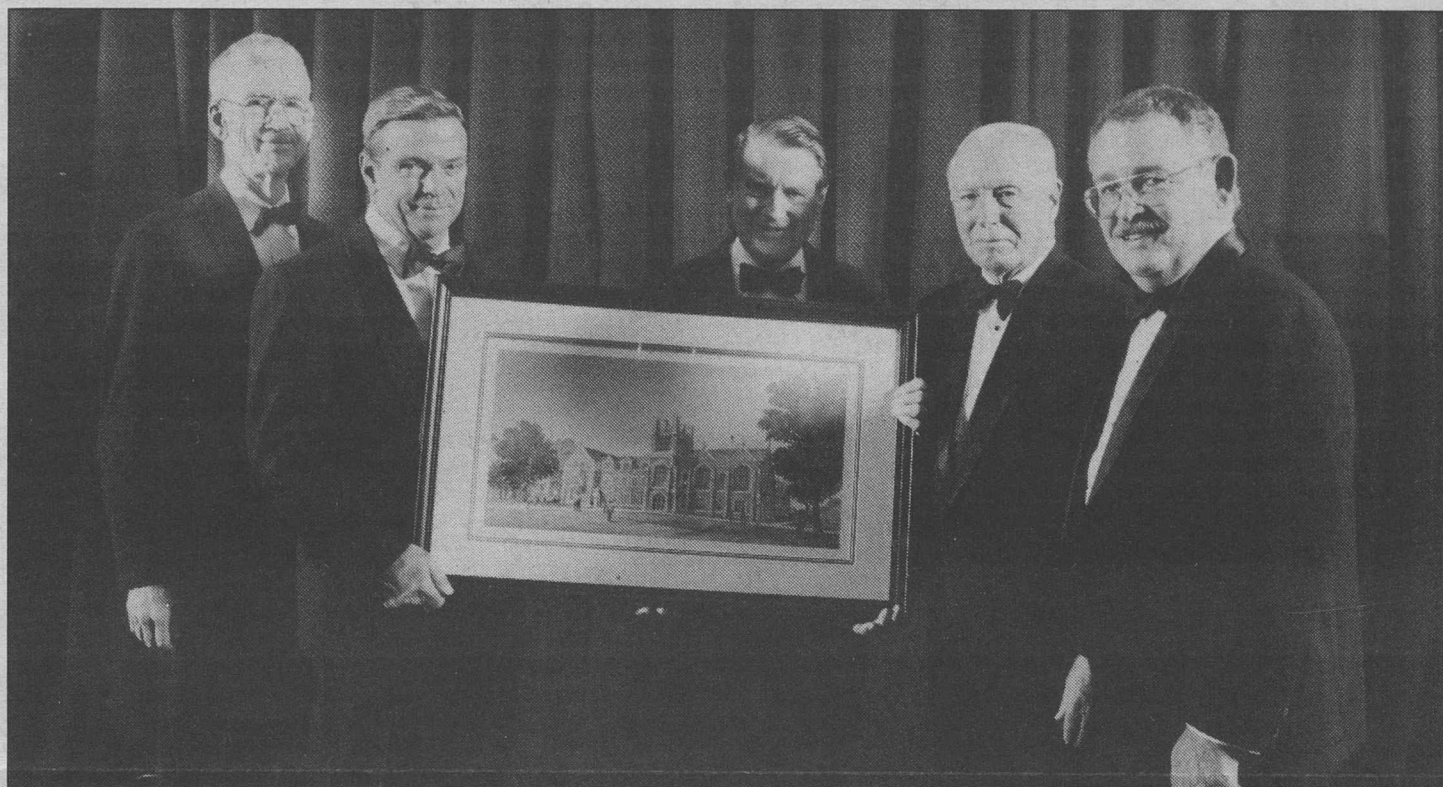
Lawrence M. Lewis, M.D., associate professor of medicine and director of the Division of Emergency Medicine, comes from St. Louis University Hospital, where he was director of the Emergency Medicine Division and an associate professor of surgery and medicine at the university's School of Medicine. His research interests include work with head injuries and transcranial Doppler ultrasound in cardiopulmonary resuscitation. He received a medical degree from the University of Miami School of Medicine in 1976.

William R. Reinus, M.D., associate professor of radiology at the School of Medicine's Mallinckrodt Institute of Radiology, previously was a resident, a fellow in musculoskeletal radiology and an assistant professor of clinical radiology at the institute. His research interests include radiology outcomes and applications of artificial neural networks to imaging problems. He received a bachelor's degree in mathematics in 1975 from Amherst College in Amherst, Mass., and a medical degree from New York University in 1979.

Dwight A. Towler, M.D., Ph.D., assistant professor of both medicine and molecular biology and pharmacology, comes from Merck Research Laboratories in West Point, Penn., where he was a postdoctoral research scientist. His research focuses on the regulation of the bone protein osteocalcin by a factor that controls bone formation in the developing skull. He received a bachelor's degree in chemistry in 1983 from Moorhead State University in Moorhead, Minn. He received both a doctorate in biochemistry and molecular biology and a medical degree from Washington University in 1989.

Rachel O. L. Wong, Ph.D., assistant professor of neurobiology, comes from the University of Queensland in Brisbane, Australia, where she was an R. D. Wright Fellow at the Vision, Touch and Hearing Research Centre. Her research focuses on cellular interactions during development of the neural retina. She received a bachelor's degree in physics from Monash University in Victoria, Australia, in 1982 and a doctorate in physiology from Australian National University in Canberra in 1986.

Michael Zuker, Ph.D., associate professor of biomedical computing, comes from the Institute for Biological Sciences at the National Research Council of Canada in Ottawa, where he was a senior research officer. His research focuses on algorithms for ribonucleic acid secondary structure predictions and molecular sequence analysis. Zuker received a bachelor's degree in mathematics from McGill University in Montreal in 1970 and a doctorate in mathematics from the Massachusetts Institute of Technology in Cambridge in 1974.



From left: Chancellor William H. Danforth, August A. Busch III, chair of the board and chief executive officer of Anheuser-Busch Cos. Inc., William H. Webster, campaign chair and senior partner of Milbank, Tweed, Hadley and McCloy in Washington, D.C., Fred L. Kuhlmann, retired executive vice president and vice chair of the board of Anheuser-Busch Cos. Inc., and School of Law Dean Dorsey D. Ellis Jr.

Generous contributors boost law school campaign

Listed below are some of the people and organizations, in addition to Anheuser-Busch and Fred Kuhlmann, whose generous contributions already have made a difference in the School of Law's "Building for a New Century" campaign.

The Hon. Marion T. Bennett, J.D. '38, is a senior circuit judge, U.S. Court of Appeals for the Federal Circuit, Washington, D.C. He is a longstanding supporter of the law school and a past Distinguished Alumni Award recipient.

Melvin F. Brown, A.B. '57 and J.D. '61, is president and chief executive officer of ITT Commercial Finance Corp. in St. Louis. He serves as a member of the National Council for the law school and as chair of the special gifts committee for the campaign.

Bryan Cave, founded approximately 120 years ago, is a leading U.S. law firm with a diversified national and international practice, primarily in the areas of business and commercial law and litigation. Bryan Cave has long maintained a rich and productive relationship with Washington University and the law school.

Donald P. Gallop, J.D. '59, is chair of the St. Louis law firm of Gallop, Johnson & Neuman. He specializes in corporate and banking law. He serves as chair of the law school's National Council and as deputy chair of the school's campaign.

The Clifford W. Gaylord Foundation was established in 1948 by Clifford W. Gaylord, a former member of the Washington University Board of Trustees. The foundation has generously supported Washington University and the law school since 1971.

Thomas R. Green, J.D. '58, is an attorney and real estate developer in St. Louis. He serves as a member of the law school's National Council and as vice chair of annual giving programs for the campaign.

W. L. Hadley Griffin, LL.B. '47, is an honorary director (former chair) of Brown Group Inc. in St. Louis. He serves as a member of the law school's National Council and as executive vice chair of the campaign.

Thomas C. Hullverson, J.D. '59, is a partner of The Hullverson Law Firm. He serves as chair of the law school's scholarship committee and is a member of the National Council for the law school.

Established in 1958, **The Mary Ranken Jordan and Ettie A. Jordan Charitable Foundation** supports initiatives in the areas of arts and education and children's health and welfare within Missouri. The foundation has supported Washington University generously since 1963.

Jerome Kalishman, B.S.B.A. and J.D. '50, is chair of the board of Insituform Mid-America Inc. in St. Louis. He serves as a member of the law school's National Council and as a member of the major gifts committee for the campaign.

Fred L. Kuhlmann, A.B. and LL.B. '38, retired in 1983 as executive vice president of Anheuser-Busch Cos. Inc. and became president of the St. Louis National Baseball Club Inc. He serves as vice chair of the St. Louis Cardinals, is a member of the law school's National Council and is national vice chair of organizations for the law school's campaign.

Ned O. Lemkemeier, J.D. '62, is a member of the executive committee and co-chair of the employment and labor department at Bryan Cave. He serves as a member of the law school's National Council and as chair of the major gifts committee for the campaign.

The Montgomery Street Foundation, incorporated in 1952 in California as the Crown Zellerbach Foundation, is now an

independent foundation. It has generously supported Washington University and the law school since 1960.

James Sunderland, J.D. '52, is president and director of Ash Grove Cement Co. in Overland Park, Kan. Through the **Lester T. Sunderland Foundation**, he and his brother Robert have generously supported many charitable organizations in Missouri, Nebraska and Kansas.

Louis B. Susman, J.D. '62, is managing director of Salomon Brothers Inc. in Chicago. He serves as a member of the law school's National Council and as national vice chair of regional campaigns.

William M. Van Cleve, J.D. '53, is a partner and former chair of the Bryan Cave law firm. He is chair of the Washington University Board of Trustees, a member of the National Council for the law school and executive vice chair of the school's campaign.

E. Louis Werner Jr., J.D. '52, is chair emeritus and director of Insurers Service Corp. A resident of Phoenix, he serves as the University's Eliot Society chair for Phoenix.

Louis I. Zorensky, B.S.B.A. and J.D. '41, is the co-founder of Hycel Properties, a real estate developer in St. Louis. He serves as a member of the law school's National Council and as national vice chair of capital giving (individuals) for the campaign.

Law school — from page 1

and skill as leaders in the campaign. Thanks to their deep and abiding commitment to excellence in education, the School of Law will continue to provide a high quality education into the 21st century. We are extremely grateful to Anheuser-Busch for giving the campaign such an excellent start."

Opportunities & personnel news

Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 126 North Brookings Hall, or by calling 935-5990. Note: All positions require three letters of recommendation.

Assistant to the Dean 950095. *School of Architecture.* Requirements: Bachelor's degree; typing 50 wpm with accuracy; strong written and verbal skills; ability to assist the dean in preparing written reports regarding accreditation, strategic planning, student recruitment and graduate job information; fluency in Microsoft Word, PageMaker and Excel to frequently prepare written reports and statistical reports; organizational skills for planning committee meetings, arranging for visiting faculty, coordinating symposia and accreditation visits; familiarity with SIS and FIS systems necessary for assisting business manager with day-to-day transactions. Clerical tests required.

Senior Project Leader 950110. *Computing and Communications.* Requirements: Minimum four years of college; minimum five years data processing experience; ability to design, program and install major data processing systems; ability to lead others in data processing project development; ability to design, write and install MANTIS or FOCUS systems. Resumé required.

Project Manager 950114. *Facilities Planning and Management.* Requirements: Bachelor's degree; minimum five years project management experience in both design and construction; ability to read and interpret plans and specifications; capable of working with and motivating design professionals and contractors; ability to organize time and priorities to be most productive; self motivated, responsible and mature individual; good communications skills; good working knowledge of the design and construction industry to assess

quality of the work being performed; ability to make judgments on acceptability, proper means and methods of design and construction. Resumé required.

Director of Benefits 950120. *Office of Human Resources.* Requirements: Ten or more years progressively responsible experience in designing, contracting and communicating a variety of employee benefits as well as complying with their respective requirements; professional certification by credentialing organizations such as SHRM, CEBS, ACA, etc.; master's degree in human resources, a Certified Public Accountant and/or a master's degree in business administration; ability to train, coach, counsel subordinate human resources staff, customers and peers. Resumé required.

Administrative Secretary 950121. *Office of International Studies.* Requirements: Some college, associate's degree preferred; ability to provide general secretarial support to associate director; assist in the preparation of newsletters, reports, grant proposals, creation of databases, budgetary and other office-related responsibilities, arrange meetings, seminars and other events; excellent communication and organizational skills; ability to use a Macintosh computer; knowledge of the word processing programs for the Macintosh, such as Pagemaker, Filemaker Pro, Excel and MS-Word, preferred; typing 50 wpm with accuracy; knowledge of FIS accounting system preferred. Clerical tests required.

Department Secretary 950122. *Alumni and Parents Admission Program.* Requirements: College degree preferred; specialized secretarial and business training; typing 45 wpm with accuracy; experience with word processing and data base management; three years of office experience; ability to deal effectively and sensitively with senior administrators, faculty, alumni, parents and prospective students; ability to maintain confidentiality; excellent attendance record; excellent command of spoken English; good command of written English; ability

to handle multiple tasks with strict deadlines requiring high degree of organization; ability to work independently with minimal supervision; availability to work overtime as needed; maturity; good grooming; pleasant personality. Clerical tests required.

Department Secretary 950128. *Alumni and Development Programs.* Requirements: Some college, bachelor's degree preferred; strong verbal and written skills; pleasant, professional manner with co-workers, volunteers and outside vendors; typing 50 wpm with accuracy; ability to handle multiple tasks in an organized, accurate and timely manner; available to work overtime as necessary.

Publications Assistant 950130. *Undergraduate Admission.* Requirements: Bachelor's degree; excellent knowledge of grammar; good eye for detail; experience with publications, graphic design and/or typesetting preferred; ability to work effectively to meet tight deadlines; strong organizational skills. Position is for one year with a possible extension. Responsibilities: implement and coordinate projects from inception to completion; prepare specifications for print bids and communicate with vendors throughout the production of projects. Resumé required.

Sales Associate 950131. *Campus Stores.* Requirements: High school graduate, some college preferred; good customer relations; ability to stand and lift, display and organize merchandise; cashiering experience; flexibility; typing 20 wpm with accuracy; willingness to work evenings and weekends. Clerical tests required.

Department Secretary 950133. *Alumni and Development Programs.* Requirements: High school graduate, some college preferred; specialized secretarial and business training; minimum of two years office experience, reflecting excellent word processing; typing 40 wpm with accuracy; organizational skills; strong command of the English language; ability to deal with multiple priorities with mini-

mal supervision; good personality and grooming; ability to work overtime, including nights, weekends, etc. Clerical tests required.

Blanket Order Clerk 950135. *Accounting Services.* Requirements: Two years accounts payable experience or 18 months accounts payable experience, which includes six months at Washington University with an above satisfactory rating, or six semester hours of accounting; high clerical and mathematical aptitude; good communication skills; proficiency in the operation of office equipment, including CRT experience; legible handwriting; willingness to participate on various types of teams and projects to achieve the goals of Accounting Services. Clerical tests required.

Communications Technician I 950138. *Communications Services.* Requirements: High school graduate, certificate or associate's degree preferred; training and/or experience in concepts of operation and maintenance of communications equipment; ability to perform strenuous work and heavy lifting; willingness to work flexible hours and overtime; use of personal vehicle required with mileage reimbursement; ability to detect and differentiate the telephone color code. Resumé required.

Coordinator Disabled Student Services, Part time 950140. *Student Affairs.* Requirements: Master's degree, doctorate preferred. Responsibilities: Overall administration of the services and programs provided by Disabled Student Services (DSS) (the primary focus of DSS is to actively assist Washington University Hilltop students with physical, learning, or other disabilities and/or referral to appropriate academic and support services on campus, or in the city or state); maintain effective relations with faculty and staff, other campus offices and off-campus services and agencies that assist people with disabilities; act as an advocate for students; assist the University in affording students with physical, learning or other disabilities access to academic and support programs. Resumé required.

Mail Carrier, Part time 950141. *Campus Post Office.* Requirements: High school graduate; ability to lift heavy packages, work outside in all kinds of weather, go up and down stairs during mail delivery; driver's license with safe driving record; ability to pass University Health Service physical exam. Application required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at 362-4920 to request an application. External candidates may call 362-7195 for information regarding application procedures or may submit a resumé to the Human Resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, Mo., 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than Human Resources.

Secretary II 950237-R. *Student Affairs.* Requirements: High school graduate or equivalent, some college and two years office experience preferred; experience with WordPerfect; typing 65 wpm.

Coding Specialist 950297-R. *Internal Medicine.* Schedule: 3-11 p.m.; some weekends. Requirements: High school graduate or equivalent; two years experience preferred; experience in CPT and ICD-9 coding; knowledge of medical terminology; typing 25 wpm. Requires considerable walking.

Financial Aid Assistant 950306-R. *Student Affairs.* Requirements: High school graduate or equivalent, some college preferred; training or experience on WordPerfect; typing 45 wpm.

Medical Transcriptionist 950349-R. *Surgery.* Requirements: High school graduate or equivalent, some business or technical school training preferred; knowledge of medical terminology; experience on WordPerfect 5.1; typing 55 wpm.

Senior Budget and Financial Reporting Analyst 950379-R. *Finance Office.* Requirements: Bachelor's degree, master's preferred; experience in Clinical Revenue Income Accounting, general accounting and account analysis; three years experience in Healthcare Accounting.

Editorial Assistant 950411-R. *Radiology.* Requirements: Two years of college or equivalent experience in an editorial office; experience in word processing, dictation and medical terminology; typing 45 wpm.

Insurance, Billing and Collection Assistant I 950413-R. *Surgery.* Requirements: High school graduate or equivalent plus two years experience in a medical environment or related college-level courses with related experience; familiarity with medical insurance claims and medical terminology.

Accounting Clerk I 950428-R. *Transportation.* Schedule: Part time, 20 hours per week, flexible. Requirements: High school graduate or equivalent; some office experience, including filing; typing 50 wpm.

Insurance, Billing and Collection Assistant I 950439-R. *Internal Medicine.* Requirements: High school graduate or equivalent; flexibility and ability to handle a variety of duties. Some local travel required; experience in AP/AR and billing and collecting.

Accounting, Payroll or Purchasing Assistant I 950458-R. *Cell Biology.* Schedule: Part time, 20 hours per week, 8 a.m.-noon Mondays through Fridays. Requirements: High school graduate or equivalent; experience with Washington University purchasing system highly desirable; experience with calculator; typing 40 wpm.

Students enjoy debating today's pressing ethical issues — from page 1

"Present Moral Problems," have been expanded to accommodate student interest.

"Students get excited about debating the big issues of our time — abortion, euthenasia, race and gender issues, environmental issues," said Marilyn Friedman, Ph.D., associate professor of philosophy. "These are things that are already on their minds. I don't teach the right answer to any of these problems, but provide students with an array of concepts and methods to help them think them through."

The department offers a Ph.D. concentration in Social Philosophy and Ethical Theory. At the graduate level, one-third of students are writing dissertations on ethics. An ethics reading group meets every two weeks and an active colloquium series has brought many leading social and moral philosophers to campus, including Annette Baier, Joel Feinberg, Owen Flanagan, Virginia Held, Thomas McCarthy, Amelie Rorty, Cornel West and Iris Young. This is not a Washington University phenomenon, but is occurring at universities nationwide, some of which, including Georgetown University and the University of Maryland, have established ethics centers. Across the country, about one-third of the jobs in philosophy advertise for a specialization in ethics.

"Ethics has remained a major issue before the public for 10 to 15 years, much longer than I would have thought," May said. "There is a lot of popular attention, not just because of scandals and a dearth of ethics in the government and business sectors. People must feel some kind of anxiety or malaise about ethics and are looking for someone to give them a guide."

In ancient Greece, ethics was one of the four fields of philosophy, and often was

considered the "practical" philosophy. Historically, May said, ethical dilemmas have not changed much over time, except as they relate to technology. Today's increasingly global environment is prompting a fresh view of ancient theory, as people become acquainted with ethical codes around the world.

"Parochialism in universities cannot be justified in today's increasingly pluralistic society," said May who, along with former graduate student Shari Collins Sharrat, published the textbook *Applied Ethics: A Multicultural Approach*, this year. The textbook already has been adopted in curricula nationwide.

Both theoretical and practical, or applied, ethics are taught at Washington University. In general, courses at the professional schools emphasize applied ethics. For example, business school students look at situational ethics, or case studies, like the marketing of "Powermaster," a high-alcohol malt liquor that originally was targeted to the inner city.

Generally, ethics courses offered by the philosophy department start with abstract ethical theory, like John Stuart Mills' utilitarian view that moral rightness is the maximization of pleasure and the minimization of pain, and move into its application. Carl Wellman, Ph.D., the Hortense and Tobias Lewin Distinguished Professor in the Humanities, said it is important for students to be exposed to ethics both in theory and in application.

"It would be a mistake to separate ethical theory from applied ethics," Wellman said. "It is important for students to understand the different theories that are most often applied. You would do bad

applied ethics if you didn't understand the theory behind it. And you would do bad theoretical ethics if you couldn't apply it."

Friedman agreed. "Even for students who are not going to become philosophy majors, it's important to focus on practical problems but have some theoretical background in order to think about them more systematically."

According to Wellman, the 1960s brought about a revolutionary change in the study of ethics when, for the first time in this century, ethical theory took on practical application.

"In the '50s, people in ethical philosophy dealt with what do words like right and wrong mean? What is the logic of ethics reasoning? Philosophers had no business discussing applied ethics," Wellman said. "The Civil Rights movement changed that. Philosophers got involved and found they had contributions to make. They did a lot of writing about the Vietnam War and philosophy journals started dealing with legal and applied ethics in all forms."

Recent developments in medicine have brought about another resurgence in discussion about applied ethics. Wellman's undergraduate course "Biomedical Ethics" usually fills before students arrive on campus. About half of the students who enroll are pre-med, others are just interested in the subject.

"You can't read the news, watch TV or listen to public radio without noticing the obvious resurgence in interest in biomedical ethics," said Wellman. "In my course, I acquaint students with a wide range of issues in biomedical ethics and familiarize them with arguments on both sides, without trying to tell them the correct answer.

"Changes in medicine have raised new ethical problems, or old problems in new forms," Wellman continued. "We look at abortion and ask, 'Is it permissible? If so, when?' We discuss assisted suicide, or a patient's right to refuse treatment, *in vitro* fertilization and other techniques of reproduction, allocation of healthcare resources, a right to medical care. Is it another commodity to be bought and sold on the market? So if you have a lot of money you get the best healthcare, if you have little, you get the worst?"

As students debate these and other ethical dilemmas, classroom discussion is lively. Classroom participation accounts for a significant percentage of a student's grade and professors encourage students to express their own opinions, to debate with their classmates, and to appreciate opposing points of view.

"A class like 'Present Moral Problems' is good because it helps you work on arguments and think clearly. It introduces you to a lot of contradictory and opposing arguments and I find it interesting to reason through the discussion," said David Todtfield, a philosophy major. "Many people have their views set by the time they get here, but there is no harm in checking out other people's views."

While you can't make someone ethical, you can teach him or her about moral ideas and tap his or her intuition, May said.

"Socrates and Plato believed the only kind of learning was self-learning. That is certainly a view we all have. No amount of writing on the blackboard and handouts will teach what a student will learn by reasoning something out on his or her own."

— Susannah Webb